

AMENDMENTS TO THE CLAIMS

1. (Currently amended): A method for end node partitioning for a physical element, comprising the steps of:

selecting a configuration of the physical element, said physical element including a plurality of ports;

probing [[a port]] one of said plurality of ports that is included within said physical element, wherein the port is probed with a subnet management packet by a subnet manager;

in response to determining that said physical element is a particular type of physical element, partitioning said physical element to provide a plurality of virtual representations of said physical element, each one of said plurality of virtual representations having a unique access control level; and

partitioning said physical element by in response to detecting a switch associated with the port, assigning a different local identifier to the port each one of said plurality of ports that is included within said physical element resulting in a configuration change of the physical element.

2. (Original): The method as recited in claim 1, wherein selecting the configuration of the physical element includes a static selection of the physical element and a dynamic selection of the physical element.

3. (Original): The method as recited in claim 2, further comprising:

in response to a static selection of the physical element, modifying the configuration of the physical element through at least one of a fabric initialization and a reboot of a node associated with the port.

4. (Original): The method as recited in claim 2, further comprising:

in response to a dynamic selection of the physical element, modifying the configuration of the physical element through a reboot of a node associated with the port.

5. (Currently amended): The method as recited in claim 1, further comprising:  
said physical element being one of a switch, a target channel adapter, and a host channel adapter.  
~~in response to determining an additional port associated with the switch, assigning a local identifier to the additional port.~~

6. (Original): The method as recited in claim 1, further comprising:  
in response to a host channel adapter and a host node becoming operational, reporting the host channel adapters and host processor node as they become operational.

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7. (Original): The method as recited in claim 1, further comprising:  
in response to removing a host channel adapter and a host node from operation, reporting the removal of the host channel adapter and the host node from operation.

8. (Original): The method as recited in claim 1, further comprising:  
connecting one or more operating system images to at least one host channel adapter.

9. (Original): The method as recited in claim 8, wherein the host channel adapter is a virtual host channel adapter.

10-12. (Canceled)

13. (Currently amended): A system for end node partitioning for a physical element, comprising:  
a selection component for selecting a configuration of the physical element, said physical element including a plurality of ports;  
a probing component for probing one of said plurality of ports that is included within said physical element ([a port]), wherein the port is probed with a subnet management packet by a subnet manager;

in response to determining that said physical element is a particular type of physical element, partitioning means for partitioning said physical element to provide a plurality of virtual representations of said physical element, each one of said plurality of virtual representations having a unique access control level; and

an assignment component for partitioning said physical element by, in response to detecting a switch associated with the port, for assigning a different local identifier to the port each one of said plurality of ports that is included within said physical element resulting in a configuration change of the physical element.

14. (Original): The system as recited in claim 13, wherein selecting the configuration of the physical element includes a static selection of the physical element and a dynamic selection of the physical element.

15. (Original): The system as recited in claim 14, further comprising:  
a modification component, in response to a static selection of the physical element, for modifying the configuration of the physical element through at least one of a fabric initialization and a reboot of a node associated with the port.

16. (Canceled)

17. (Currently amended): The system as recited in claim 13, further comprising:  
said physical element being one of a switch, a target channel adapter, and a host channel adapter.

~~the assignment component, in response to determining an additional port associated with the switch, assigns a local identifier to the additional port.~~

18. (Original): The system as recited in claim 13, further comprising:  
a reporting component, in response to a host channel adapter and a host node becoming operational, for reporting the host channel adapter and host processor node as they become operational.

19. (Original): The system as recited in claim 13, further comprising:  
a reporting component, in response to removing a host channel adapter and a host node from operation, reporting the removal of the host channel adapter and the host node from operation.
20. (Original): The system as recited in claim 13, further comprising:  
a connection component for connecting one or more operating system images to at least one host channel adapter.
21. (Original): The system as recited in claim 20, wherein the host channel adapter is a virtual host channel adapter.
22. (Currently amended): A computer program product in a computer readable medium for end node partitioning for a physical element, comprising:  
instructions for selecting a configuration of the physical element, said physical element including a plurality of ports;  
instructions for probing one of said plurality of ports that is included within said physical element [[a port]], wherein the port is probed with a subnet management packet by a subnet manager;  
in response to determining that said physical element is a particular type of physical element, instructions for partitioning said physical element to provide a plurality of virtual representations of said physical element, each one of said plurality of virtual representations having a unique access control level; and  
instructions for partitioning said physical element by, in response to detecting a switch associated with the port, for assigning a different local identifier to the port each one of said plurality of ports that is included within said physical element resulting in a configuration change of the physical element.
23. (Original): The computer program product as recited in claim 22, wherein selecting the configuration of the physical element includes a static selection of the physical element and a dynamic selection of the physical element.

24. (Original): The computer program product as recited in claim 23, further comprising:

instructions, in response to a static selection of the physical element, for modifying the configuration of the physical element through at least one of a fabric initialization and a reboot of a node associated with the port.

25. (Original): The computer program product as recited in claim 23, further comprising:

instructions, in response to a dynamic selection of the physical element, for modifying the configuration of the physical element through a reboot of a node associated with the port.

26. (Currently amended): The computer program product as recited in claim 23, further comprising:

said physical element being one of a switch, a target channel adapter, and a host channel adapter.

~~instructions, in response to determining an additional port associated with the switch, for assigning a local identifier to the additional port.~~

27. (Currently amended): The computer program product as recited in claim 23, further comprising:

instructions, in response to a host channel adapter and a host node becoming operational, for reporting reporting the host channel adapters and host processor node as they become operational.

28. (Original): The computer program product as recited in claim 23, further comprising:

Instructions, in response to removing a host channel adapter and a host node from operation, for reporting removal of the host channel adapter and the host node from operation.

29. (Original): The computer program product as recited in claim 23, further comprising:

Instructions for connecting one or more operating system images to at least one host channel adapter.

30. (Original): The computer program product as recited in claim 29, wherein the host channel adapter is a virtual host channel adapter.

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